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Relevance scale

1. [From service configuration through performance monitoring to fault detection: implementing an integrated and automated network maintenance platform for enhancing wide area transaction access services](#)

Symeon Papavassiliou, Mike Pace

September 2000 **International Journal of Network Management**, Volume 10 Issue 5**Publisher:** John Wiley & Sons, Inc.Full text available: [pdf\(961.05 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The design and implementation of integrated and automated network-service management platforms that can seamlessly configure services, monitor service-network performance, and detect network faults are of great importance and interest to the service and network providers. In this paper we describe a set of integrated Operations Support Systems
OSS> that implement proactive network maintenance process in Wide Area Transaction Access Services. Copyright © 2000 John ...

2. [Special issue: AI in engineering](#)

 D. Sriram, R. Joobbanie April 1985 **ACM SIGART Bulletin**, Issue 92
Publisher: ACM PressFull text available: [pdf\(8.79 MB\)](#) Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

3. [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM PressFull text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

4. Implementation of a diagnostic and troubleshooting multi-agent system for cellular networks

Mahamat Guiagoussou, Said Soulli

August 1999 **International Journal of Network Management**, Volume 9 Issue 4

Publisher: John Wiley & Sons, Inc.

Full text available:  [pdf\(570.61 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article presents the implementation of a maintenance application for cellular switching system using the multi-agent paradigm. The main philosophy behind the design of the multi-agent system is based on the TMN framework, where each agent can be mapped with one or several TMN functional blocks. Copyright © 1999 John Wiley & Sons, Ltd.

5 Network and service management for wide-area electronic commerce networks

Symeon Papavassiliou

March 2001 **International Journal of Network Management**, Volume 11 Issue 2

Publisher: John Wiley & Sons, Inc.

Full text available:  [pdf\(416.91 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper focuses on the effective management of wide-area electronic commerce networks supporting services and applications that require high availability and reliability as well as fast reconstitution time, in the event of failures. Copyright © 2001 John Wiley & Sons, Ltd.

6 Human-computer interface development: concepts and systems for its management

H. Rex Hartson, Deborah Hix

March 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(7.97 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Human-computer interface management, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. *Dialogue independence* is th ...

7 Technique for automatically correcting words in text

Karen Kukich

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(6.23 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Research aimed at correcting words in text has focused on three progressively more difficult problems: (1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent word correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

8 Network management capabilities for switched multi-megabit data service

David M. Piscitello, Patrick J. Sher

April 1990 **ACM SIGCOMM Computer Communication Review**, Volume 20 Issue 2

Publisher: ACM Press

Full text available:  pdf(831.90 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper discusses network management capabilities for a specific BOC data service, SMDS, and the role that a BOC network providing this service can play in the overall management strategy of a subscriber owned and operated data network. The paper describes user needs for managing the computing equipment and communications services that comprise a data network, and suggests several ways in which a BOC network could offer network management features that complement and are synergistic with the ...

9 Real-time protocol analysis for detecting link-state routing protocol attacks 

 Ho-Yen Chang, S. Felix Wu, Y. Frank Jou

February 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 1

Publisher: ACM Press

Full text available:  pdf(252.10 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A real-time knowledge-based network intrusion-detection model for a link-state routing protocol is presented for the OSPF protocol. This model includes three layers: a data process layer to parse packets and dispatch data; and event abstractor to abstract predefined real-time events for the link-state routing protocol; and an extended timed finite state machine to express the real-time behavior of the protocol engine and to ...

Keywords: OSPF attacks, event correlation, knowledge-based IDS, link-state routing protocol security, real-time misuse intrusion detection, real-time network protocol analysis, timed finite state machine

10 Specification and implementation of exceptions in workflow management systems 

 Fabio Casati, Stefano Ceri, Stefano Paraboschi, Giuseppe Pozzi

September 1999 **ACM Transactions on Database Systems (TODS)**, Volume 24 Issue 3

Publisher: ACM Press

Full text available:  pdf(250.40 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Although workflow management systems are most applicable when an organization follows standard business processes and routines, any of these processes faces the need for handling exceptions, i.e., asynchronous and anomalous situations that fall outside the normal control flow. In this paper we concentrate upon anomalous situations that, although unusual, are part of the semantics of workflow applications, and should be specified and monitored coherently; in most real-life applica ...

Keywords: active rules, asynchronous events, exceptions, workflow management systems

11 Distributed systems - programming and management: On remote procedure call 

Patrícia Gomes Soares

November 1992 **Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 2**

Publisher: IBM Press

Full text available:  pdf(4.52 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The Remote Procedure Call (RPC) paradigm is reviewed. The concept is described, along with the backbone structure of the mechanisms that support it. An overview of works in supporting these mechanisms is discussed. Extensions to the paradigm that have been proposed to enlarge its suitability, are studied. The main contributions of this paper are a standard view and classification of RPC mechanisms according to different perspectives, and a snapshot of the paradigm in use today and of goals for t ...

12 Special issue on persistent object systems: Orthogonally persistent object systems

Malcolm Atkinson, Ronald Morrison

July 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**,

Volume 4 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available:  [pdf\(5.02 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Persistent Application Systems (PASs) are of increasing social and economic importance. They have the potential to be long-lived, concurrently accessed, and consist of large bodies of data and programs. Typical examples of PASs are CAD/CAM systems, office automation, CASE tools, software engineering environments, and patient-care support systems in hospitals. Orthogonally persistent object systems are intended to provide improved support for the design, construction, maintenance, and operation o ...

Keywords: database programming languages, orthogonal persistence, persistent application systems, persistent programming languages

13 The process group approach to reliable distributed computing

 Kenneth P. Birman

December 1993 **Communications of the ACM**, Volume 36 Issue 12

Publisher: ACM Press

Full text available:  [pdf\(6.00 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: fault-tolerant process groups, message ordering, multicast communication

14 Higher-order distributed objects

 Henry Cejtin, Suresh Jagannathan, Richard Kelsey

September 1995 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 17 Issue 5

Publisher: ACM Press

Full text available:  [pdf\(2.33 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We describe a distributed implementation of Scheme that permits efficient transmission of higher-order objects such as closures and continuations. The integration of distributed communication facilities within a higher-order programming language engenders a number of new abstractions and paradigms for distributed computing. Among these are user-specified load-balancing and migration policies for threads, incrementally linked distributed computations, and parameterized client-server applicat ...

Keywords: concurrency, continuations, higher-order languages, message-passing

15 Papers: Analysis of errors in network load measurements

 Stanislav Belenki, Sven Tafvelin

January 2000 **ACM SIGCOMM Computer Communication Review**, Volume 30 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(750.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The paper identifies elements in network monitoring systems that cause errors in the load measurements found in recent reports on network statistics from an academic backbone network. Two types of network monitors are investigated: counter-based and packet capturing. The paper explains how to assign an accuracy term to the load values in case of counter-based monitors and how to eliminate distortion in the case of packet capturing monitors. The paper also suggests an MIB to reduce the counter-ba ...

16 Application of software reliability modelling to product quality and test process

W. K. Ehrlich, J. P. Stampfel, J. R. Wu

February 1990 **Proceedings of the 12th international conference on Software engineering****Publisher:** IEEE Computer Society PressFull text available:  [pdf\(829.51 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**17 Design and evaluation of a wide-area event notification service**August 2001 **ACM Transactions on Computer Systems (TOCS)**, Volume 19 Issue 3**Publisher:** ACM PressFull text available:  [pdf\(1.08 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The components of a loosely coupled system are typically designed to operate by generating and responding to asynchronous events. An event notification service is an application-independent infrastructure that supports the construction of event-based systems, whereby generators of events publish event notifications to the infrastructure and consumers of events subscribe with the infrastructure to receive relevant notifications. The two primary services that should be provided ...

Keywords: content-based addressing and routing, event notification, publish/subscribe

18 Fault tolerance under UNIXAnita Borg, Wolfgang Blau, Wolfgang Graetsch, Ferdinand Herrmann, Wolfgang Oberle
January 1989 **ACM Transactions on Computer Systems (TOCS)**, Volume 7 Issue 1**Publisher:** ACM PressFull text available:  [pdf\(1.97 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The initial design for a distributed, fault-tolerant version of UNIX based on three-way atomic message transmission was presented in an earlier paper [3]. The implementation effort then moved from Auragen Systems1 to Nixdorf Computer where it was completed. This paper describes the working system, now known as the TARGON/32. The original design left open questions in at least two areas: fault tolerance for server processes and recovery after a crash were brie ...

19 Columns: Risks to the public in computers and related systems

Peter G. Neumann

January 2001 **ACM SIGSOFT Software Engineering Notes**, Volume 26 Issue 1**Publisher:** ACM PressFull text available:  [pdf\(3.24 MB\)](#) Additional Information: [full citation](#)**20 Models supporting the network management organization**

L. J. G. T. van Hemmen

November 2000 **International Journal of Network Management**, Volume 10 Issue 6**Publisher:** John Wiley & Sons, Inc.Full text available:  [pdf\(226.87 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Organizations rely heavily on their communication networks to realize their primary objectives. Models and theories for the support of the management control and maintenance of these networks are only formulated from a technical point of view and there has been little fundamental research on organizational aspects of this subject. There are, however, some models in the literature that describe an organization to realize network management. Five models are reflected in this article and are c ...

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